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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/828,391	04/19/2004	Guenter W. Brune	DCI-20C3	4830
21833 7	590 09/22/2004		EXAMINER	
PRITZKAU PATENT GROUP, LLC 993 GAPTER ROAD			AURORA, REENA	
BOULDER, CO 80303		1	ART UNIT	PAPER NUMBER
			2862	
			DATE MAILED: 09/22/200-	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	-		
		10/828,391	BRUNE ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Reena Aurora	2862			
 Period for	The MAILING DATE of this communication app Reply	pears on the cover sheet with	the correspondence address			
THE M - Extens after SI - If the p - If NO p - Failure Any rep	RTENED STATUTORY PERIOD FOR REPL' AILING DATE OF THIS COMMUNICATION. ions of time may be available under the provisions of 37 CFR 1.12 X (6) MONTHS from the mailing date of this communication. eriod for reply specified above is less than thirty (30) days, a reply eriod for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statute oly received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a rep y within the statutory minimum of thirty (will apply and will expire SIX (6) MONTH , cause the application to become ABAI	y be timely filed 30) days will be considered timely. S from the mailing date of this communication IDONED (35 U.S.C. § 133).			
Status						
2a)□ 1 3)□ 5	Responsive to communication(s) filed on This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositio	n of Claims					
5)□ (6)⊠ (7)□ (
Applicatio	n Papers					
10)□ T ,A	 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 					
Priority ur	nder 35 U.S.C. § 119					
12) A a) C 1 2	cknowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority document Certified copies of the priority document Copies of the certified copies of the priority document application from the International Bureau te the attached detailed Office action for a list	s have been received. s have been received in Aprity documents have been re u (PCT Rule 17.2(a)).	olication No eceived in this National Stage			
	of References Cited (PTO-892)		nmary (PTO-413)			
2) Notice 3) Inform	of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date <u>04/19/04</u> .		Mail Date ormal Patent Application (PTO-152)			

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DETAILED ACTION

Specification

The disclosure is objected to because of the following informalities: At page 1, line 4, applicant is required to change the patent number 6,406,008 to 6,496,008.
 Appropriate correction is required.

Claim Objections

- 2. Claim 1 is objected to because of the following informalities:
- 3. As to claims 1 and 11, it is not clearly defined how a cable line angular orientation limits the possible directions to the cable line. What is the particular orientation of the potable locator relative to the cable line?
- 4. As to claim 1, the phrase "the possible directions to the cable line" is not clearly defined.
- 5. As to claim 6, it is not clearly defined what is moving in the actual direction of the cable line.
- 6. Appropriate correction is required.
- 7. For the purpose of rejection, examiner is interpreting the phrase "cable line angular orientation" in claims 1 and 11 as "predicted location of the locate points".

Double Patenting

8. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the

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unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

9. Claims 1, 11, 12 and 18 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 10, 11 and 13 respectively of U.S. Patent No. 6,496,008. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1, 11, 12 and 18 of the instant application are broader than and encompass the boundaries of claims 1, 10, 11 and 13 respectively of U.S. Patent No 6,496,008 and therefore are an obvious variance from the prior defined invention.

Claim Rejections - 35 USC § 102

10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 11. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Peterman (4,387,340).

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12. As to claim 1, Peterman discloses an apparatus to measure the distance to a concealed object radiating an electromagnetic signal wherein a local flux intensity of the locating signal (14) is being measured at a first above ground point (12) within the region using a portable locator in a particular orientation; and the local flux intensity is used to establish a cable line angular orientation (32) relative to the particular orientation of the portable locator (10) at the above ground point (12) (col. 2, lines 38 – 41, lines 47 – 65 and col. 3, lines 7 and 8).

Allowable Subject Matter

- 13. Claims 2 10, 13 17 and 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 14. The following is a statement of reasons for the indication of allowable subject matter: As to claims 2 5, the prior art fails to establish a vertical flux slope orientation at the above ground point; selecting the actual direction of the cable line based on the vertical flux orientation. These features taken together with the other limitations of the claims renders the claims allowable over the prior art. As to claims 6 9, the prior art fails to use additional flux intensity to establish an additional cable line angular orientation which establishes new possible directions to the cable line relative to the new particular orientation of the locator at the above ground point; and selecting a new actual direction of the cable line from the new possible directions based on the certain characteristics of the locating signal. These features taken together with the other

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limitations of the claims renders the claims allowable over the prior art. As to claim 10, the prior art fails to display the cable line orientation based on the expression tan y = b sub y / b sub x. This feature taken together with the other limitations of the claim renders the claim allowable over the prior art. As to claims 13 and 14, the prior art fails to disclose the position of the cable line irrespective of a predetermined degree of variation in orientation of the portable locator. This feature taken together with the other limitations of the claim renders the claim allowable over the prior art. As to claim 19, the prior art fails to display the cable line orientation based on the expression tan y = b sub y / b sub x. This feature taken together with the other limitations of the claim renders the claim allowable over the prior art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Reena Aurora whose telephone number is 571-272-2263. The examiner can normally be reached on Monday - Friday, 7:00 - 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, N. Le can be reached on 571-272-2233. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Reena Aurora

JAY PATIDAR PRIMARY EXAMINER